

## Abstract

A system and method for generating a curve in a region, e.g., a Low Discrepancy Curve. The method may generate an unbounded Low Discrepancy Point (LDP); apply  
5 one or more boundary conditions to the unbounded LDP to generate a bounded LDP located within the region; repeat said generating and said applying one or more boundary conditions one or more times, generating a Low Discrepancy Sequence (LDS) in the region; store the LDS; and generate output comprising the LDS, wherein the LDS defines the curve in the region. The method may scan the region according to the defined curve.  
10 In generating the unbounded LDP, the method may select two or more irrational numbers, a step size epsilon ( $\epsilon$ ), and a starting position; initialize a current position to the starting position; and increment components of the current position based on  $\epsilon$  and the irrational numbers to generate the unbounded LDP.

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